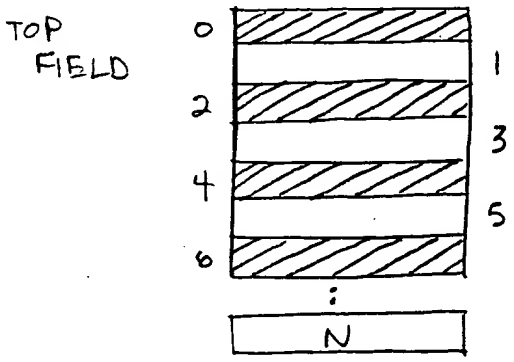

FIG 1(a)

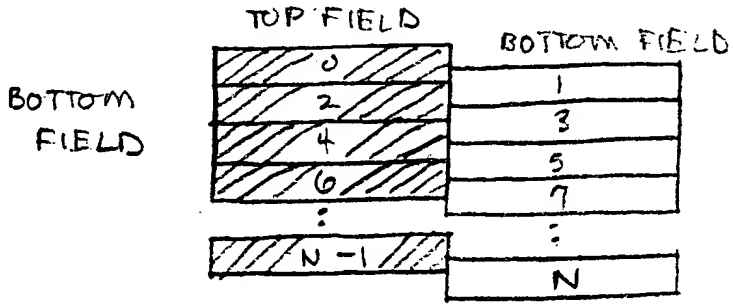

FIG 1(b)

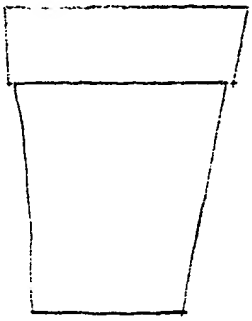

FIG 2(b)

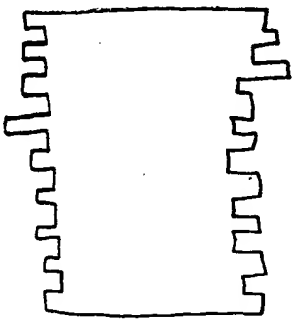

FIG 2(b)

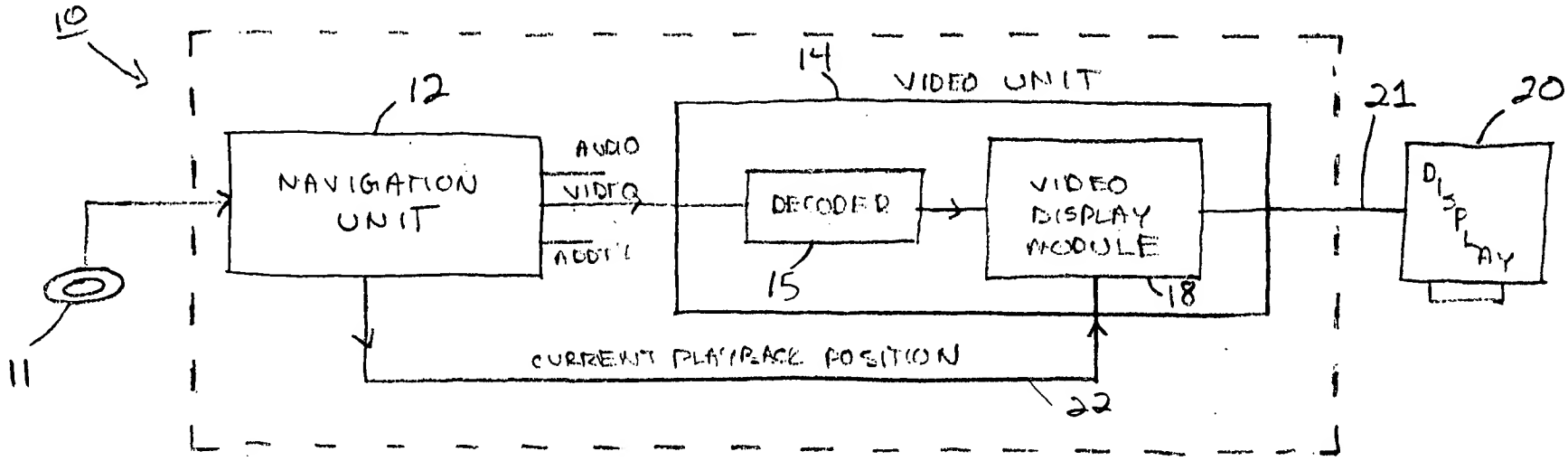
10
12
NAVIGATION UNIT
AUDIO
VIDEO
ADD'L
14
VIDEO UNIT
DECODER
15
VIDEO DISPLAY MODULE
18
21
20
DISPLAY
11
CURRENT PLAYBACK POSITION
22

FIG 3

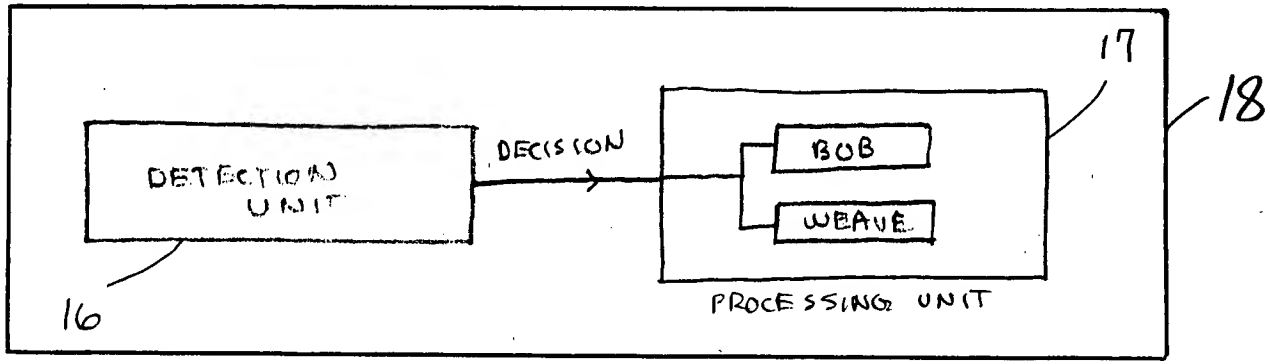
17
18
DETECTION UNIT
DECISION
BOB
WEAVE
PROCESSING UNIT
16

FIG 4

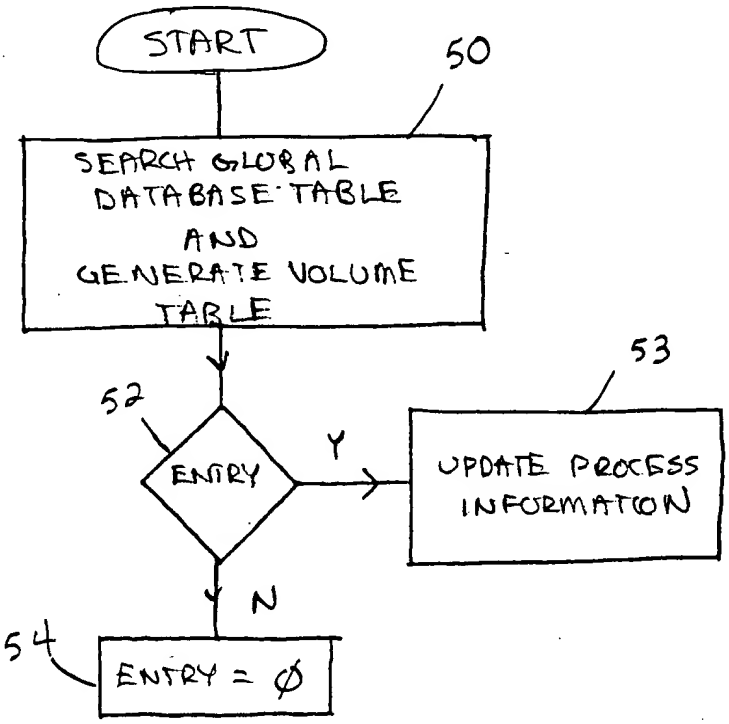
START
50
SEARCH GLOBAL DATABASE TABLE AND GENERATE VOLUME TABLE
52
ENTRY
Y
53
UPDATE PROCESS INFORMATION
N
54
ENTRY = ∅

FIG 5

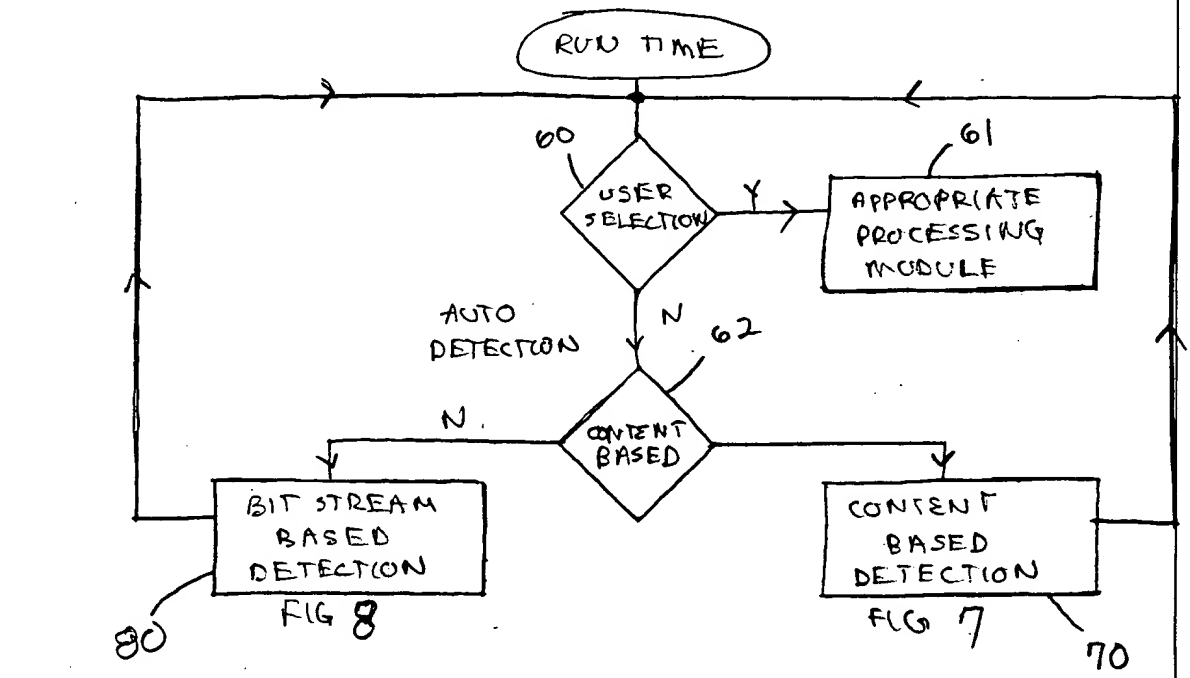
RUN TIME
60
USER SELECTION
Y
61
APPROPRIATE PROCESSING MODULE
AUTO DETECTION
N
62
CONTENT BASED
N
BIT STREAM BASED DETECTION
FIG 8
80
CONTENT BASED DETECTION
FIG 7
70

FIG 6

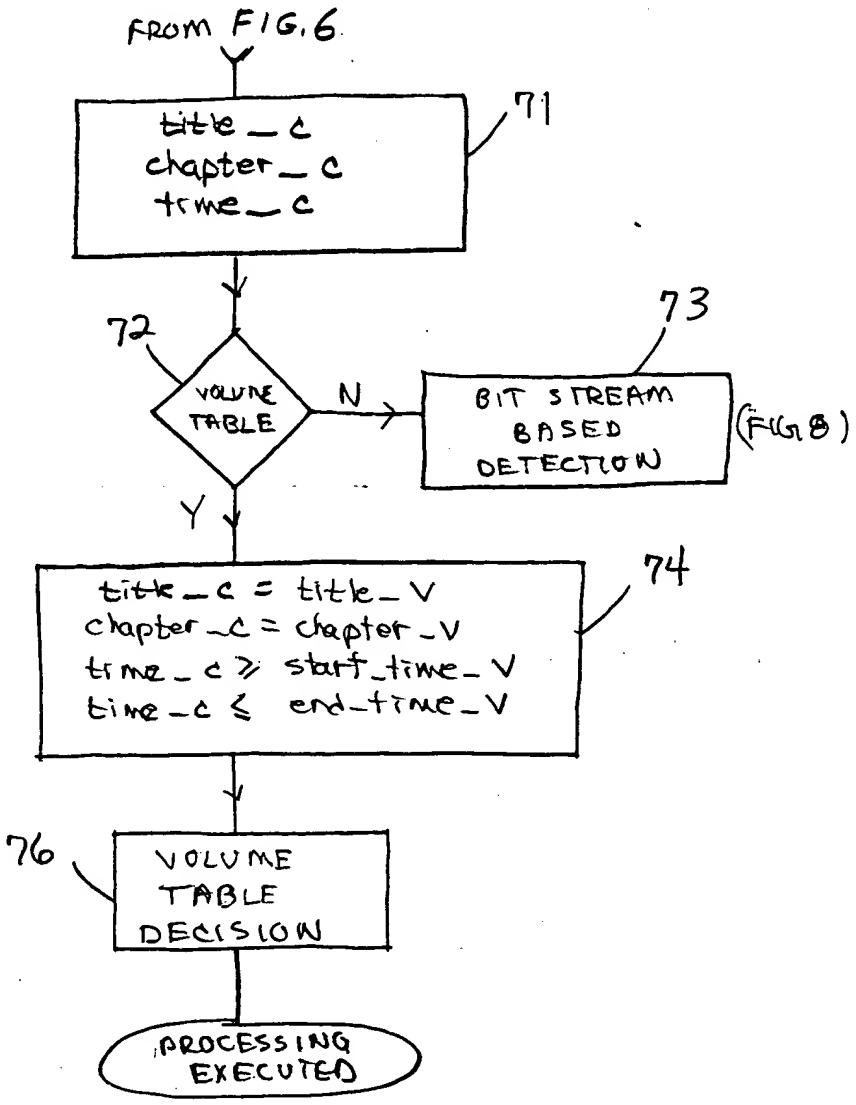
FROM FIG. 6
title_c
chapter_c
time_c
71
72
VOLUME TABLE
N
73
BIT STREAM BASED DETECTION
(FIG 8)
Y
title_c = title_V
chapter_c = chapter_V
time_c ≥ start_time_V
time_c ≤ end_time_V
74
76
VOLUME TABLE DECISION
PROCESSING EXECUTED

FIG 7

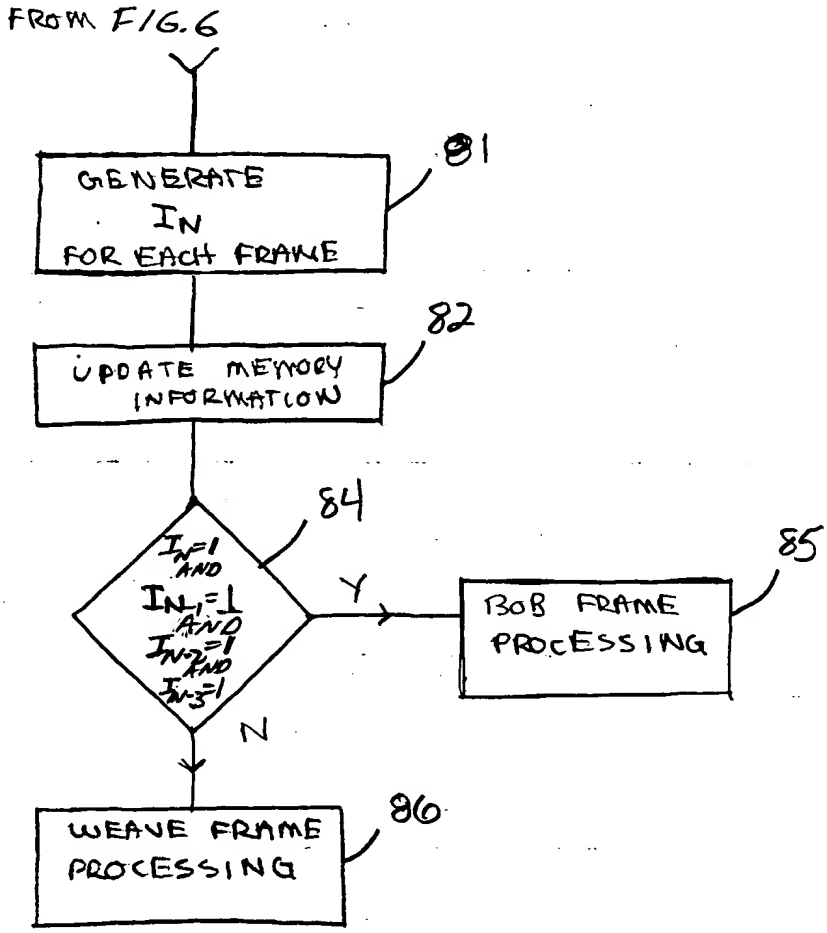
FROM FIG. 6
GENERATE
IN
FOR EACH FRAME
81
UPDATE MEMORY
INFORMATION
82
84
IN=1 AND
IN-1=1 AND
IN-2=1 AND
IN-3=1
Y
N
BOB FRAME
PROCESSING
85
WEAVE FRAME
PROCESSING
86

FIG 8

WEAVE PROCESSING

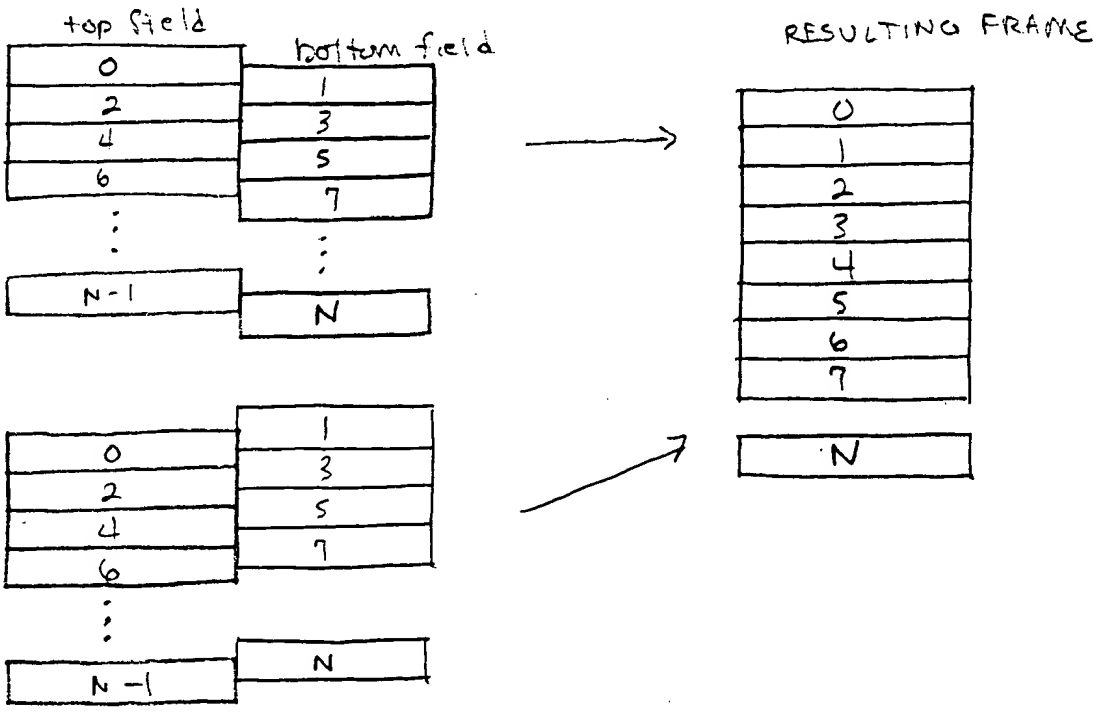

FIG 9

BOB PROCESSING

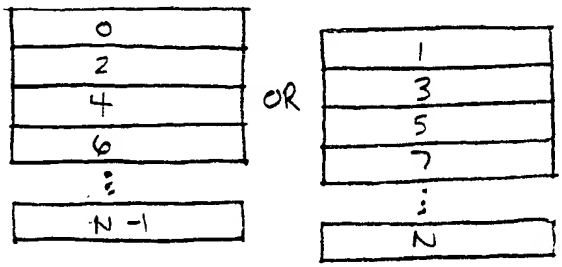

FIG 10(a)

TOP FIELD FIRST

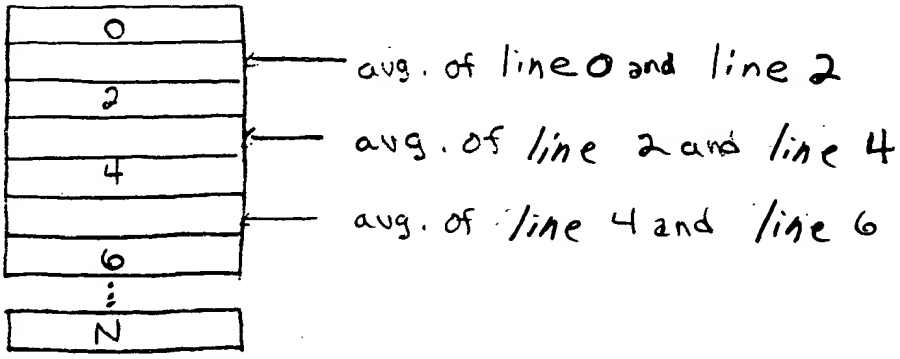

FIG 10(b)

BOTTOM FIELD FIRST

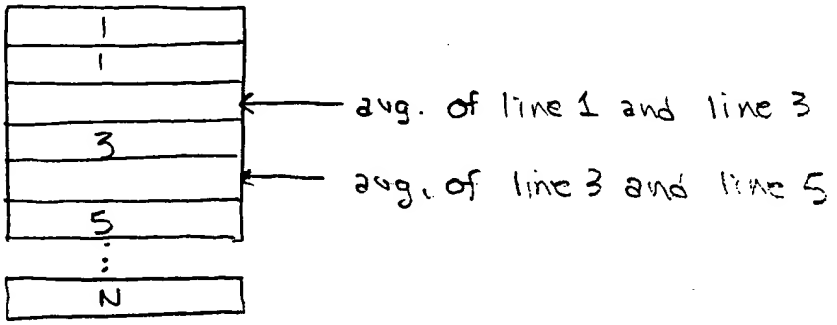

FIG 10(c)

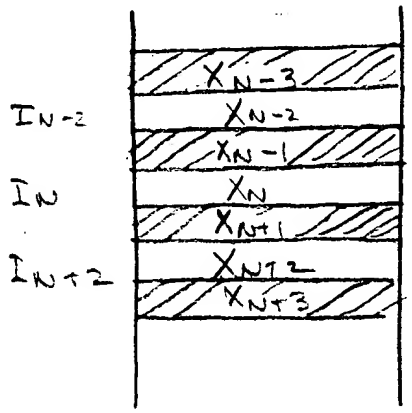

FIG 11

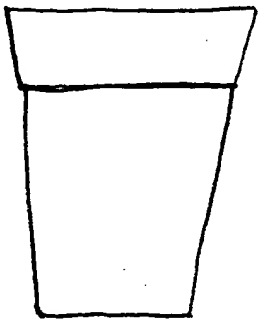

FIG 12